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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO.

MONTHLY REPORT

OCTOBER, 1924.

OCTOBER, 1924.



November 5, 1924

Dear Sir:

The following is my report on conditions in the Yellowstone National Park and on the operation of the park for the month of October, 1924:

#### I. GENERAL CONDITIONS

As the regular Yellowstone Park tourist season closed in September, during the month of October the park was on a basis of fall operations and activities, so all efforts of the organization were directed toward the clearing up of administrative work that did not require immediate attention during the summer, protection of the park line from poachers and completion of maintenance and construction work on park improvements.

#### General Observations

As the weather report shows, the month of October, 1924, was unusually stormy. The first half of the month brought especially bad weather and it looked for a time as if we were going to suffer an autumn of storm and intense cold such as overwhelmed us in October, 1919, when the elk herds were driven from the park and killed by hunters beyond the north line. As a matter of fact, if the intense storms of October, 1924, had continued another week, several thousand elk would have left the park and swarmed onto the ranges in the lower Yellowstone valley, where, after October 15th, they could have been killed. The hunting season in Montana for elk runs from October 15th to December 20th. The coming of good weather about the middle of the month stopped the northward movement of the elk to the lower altitudes and before the end of the month they had moved back considerably onto their normal fall range.



The Buffalo Keeper and several of the rangers were occupied most of the month in capturing buffalo for shipment and in assisting in the filming of Zane Grey's "Thundering Herd" by the Famous Players-Lasky Company.

As I have reported to you, the Famous Players-Lasky Company, consisting of about twenty-four actors, camera men, directors, etc., from Hollywood, and twenty Arapahoe Indians from the Wind River Reservation, arrived on October 5th. It was not until the 13th, however, that they were able to make any pictures at the Buffalo Ranch due to incessant storm. The outfit camped near the Buffalo Ranch and was cared for with the equipment of the Valley Ranch Company. Irving H. Laron, one of the proprietors of the Ranch, personally supervised the location, construction and operation of the camp.

While the storms of the early part of the month greatly hindered the improvement work in the park by public utilities, nevertheless all crews were kept at work, with more or less difficulty, however, due to the fear among laborers and skilled workers that they might be snowed in and might suffer great hardship in getting out to the railroad.

The clean-up work along the roadsides, which is being financed by a benefactor of the park, was also interrupted to a certain extent by the storms and made a little more costly on account thereof.

During the month practically all of the park equipment used during the summer was brought into the warehouses and much efficient work was done in disposing of old material lying in different sections of the park along the roads.

Coal, hay and oats that must be purchased in the fall were ordered and shipped before the end of the month, most of which have been hauled to the warehouses. Taking everything into consideration November first sees us almost on a winter basis, with practically all property under cover; the winter supplies in; the force reduced to a smaller number than ever before and the conservation of finances carefully planned for spring work.

#### Weather

The following records are quoted from the report for October of the Observer in charge of the local United States Weather Bureau



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at Mammoth Hot Springs, Park Headquarters:

The first 12 days of October were cold and stormy with unusually heavy snow for the season, while the remainder of the month was mostly fair and warm.

Temperature: Monthly mean,  $40.4^{\circ}$ , is  $1.1^{\circ}$  below normal. The noteworthy feature of the month's temperature was the cold period during the first part of the month, followed by two weeks of comparatively warm weather. However, no unusual extremes occurred, the highest being  $66^{\circ}$  on the 25th and the lowest  $24^{\circ}$  on the 11th.

Precipitation: Total, 2.43 inches, is 1.29 inches above normal, and the greatest since 1919. Rain or snow occurred on 18 days, which is the greatest of record. The average October has 8 days with precipitation.

Snowfall: Total 11.7 inches; normal 6.6 inches. The snow that fell during the first eight days of October was mixed with rain and mostly melted as it fell, but in the storm of the 9-11th, 10.4 inches of snow fell, with the greatest depth of 9.0 inches on the ground at 6 a.m. of the 11th. This is the heaviest snowfall, considering the depth on the ground, for so early in the season since the Weather Bureau record began in 1903. However, with the advent of sunshiny days the snow soon disappeared. Record of early snowfall is as follows:

| <u>Date</u>       | <u>Snowfall</u> | <u>Greatest depth<br/>on Ground</u> |                    |
|-------------------|-----------------|-------------------------------------|--------------------|
| 1905, Sept. 29-30 | 7.1 inches      | 1.5 inches                          | Soon melted        |
| 1916, Oct. 1-3    | 12.2            | 7.5                                 | Melted in few days |
| 1919, Sept. 28    | 7.7             | 6.0                                 | Soon melted        |
| 1919, Oct. 23-24  | 15.0            | 14.6                                | Staid on ground    |
| 1924, Oct. 9-11   | 10.4            | 9.0                                 | Melted in few days |

Wind: Average hourly velocity 7.3 miles; normal 7.4 miles. Very light wind was the rule except for the last three days of the month, which were characterized by strong steady winds from the south and southwest, reaching a maximum velocity of 40 miles per hour on the 31st.

Sunshine: Percentage of possible 39, which is the lowest in the October record, except 34% in 1919.



General Road and Trail Conditions

The storms of the early part of October closed Sylvan and Dunraven Passes and for about two weeks the Continental Divide between Old Faithful and Thumb and between Thumb and Snake River was closed to traffic. A storm late in October again closed these passes with drifted snow. They will not open again this year. All other roads in the park, however, were not closed by the storms of the early part of the month and are open today. Doubtless, they will continue open during most of November. Heavy trucking to the Buffalo Ranch involving the shipment of a large number of buffalo, and also hauling necessary to the maintenance of the motion picture operations at the Buffalo Ranch, injured the road between Mammoth Hot Springs and the Buffalo Ranch considerably, particularly beyond Tower Falls Ranger Station. The road beyond the Ranger Station is a dirt road without even gravel surfacing. Also, very heavy trucking with five or six trucks making the round trip to the Grand Canyon of the Yellowstone each day, very badly cut up the main highway between Mammoth Hot Springs and Norris and between Norris and Canyon. I have never seen this stretch of road in worse condition. Had intensely cold weather come with the early October storm these roads would have frozen and would not have suffered so much deterioration under heavy trucking. Most of this trucking to the Grand Canyon was done by the Yellowstone Park Camps Company, which concern is building the huge lounge-lobby and extension of the dining room at its Canyon Camp.

Some of the trails were closed by snow in the early part of the month but most of them are now open and horses are still being used on the trails in patrols by rangers.

Roads approaching the park are still in fair condition. Automobiles can still traverse the Ashton and West Yellowstone road and it is also possible to get to West Yellowstone by way of the Madison and Gallatin Rivers, although the roads up these two streams have been badly rutted. The North approach road from Livingston is still in fair passable condition but badly rutted. It, of course, will be open all winter. The Cody road is open to the Sylvan Pass Ranger Station at the park line and is in good condition. I do not know anything about the condition of roads in the Jackson Hole but assume that these roads are in very bad condition. They usually are in the fall. During the month the contractors completed the Buffalo Fork road which ends at Elk Post Office, a few miles east of Moran. This is a forest highway. Good progress was made on the new road



from Jackson to Menors Ferry in the Jackson Hole. This is a State project involving Federal Aid and when completed will give a good highway all the way from Moran to Jackson. It is reported that splendid progress was made in the graveling of the road between Warm River and Ashton, which is the only section of the road between the Idaho-Montana line and Salt Lake City that is not graveled. It is expected that this section will be graveled during the present month. I have no report on road work on the Gallatin approach road but very satisfactory progress has been made on construction of the road through the Yankee Jim Canyon from Carbella, southward along the east side of the Yellowstone River.

No maintenance work has been done on any of the park approach roads nor have we done any maintenance work in the park. The State of Montana, as you know, is in a very bad situation so far as road funds are concerned. There must be about \$1,000,000 in the Montana State Road Fund before June 30th, next, or Federal money amounting to about \$1,000,000 will be taken from the State of Montana and divided among other states in accordance with Federal Highway statutes. At the present time the gasoline and automobile license taxes are apportioned to the counties and most of these funds are used for schools, maintenance of roads, etc. There is a very strong movement in the State which has for its purpose the allocation of these gasoline and automobile license funds to the State Treasury as special funds to be used in matching Federal Aid money, both Federal and State money to be used in the improvement of the Seven Percent Highway System of Montana and any person interested in good roads in this section of the country cannot refrain from hoping that this movement will result in success.

#### General Economic Conditions

From all reports that come to me from conversations with visitors and from reading local newspapers it is plain that economic conditions in Idaho, Montana and Wyoming have been improving during the past month. In fact, the only section of these states that can be said to be in very poor straits is the Western and Southwestern part of Montana, which suffered so severely from the drought of the past summer. It has been necessary to move cattle and sheep from these sections on account of lack of fall and winter feed. The weather has not seriously affected harvesting and in fact, the weather of the latter part of the month was most favorable to the farmer.

I have not heard of any great surplus of labor in any section of these three states and of course there are men hanging around every



town who do not care whether they work or not. We have been unable to get enough common laborers to fill up the crews that are working for the utilities and the government in the park. We have telephoned to Livingston several times for laborers but the report has come back that there are no men down there who care enough about getting a job to come into this section at this time of the year. We are having no trouble in getting what supplies we need but I understand from officers of the public utilities that they have had considerable difficulty in getting delivery of steel, plumbing supplies and some kinds of lumber.

#### Travel for the Month

The Chief Ranger's monthly travel report hereto attached covers the period September 26th-October 31st, as our records for the season of 1924 were closed on September 25th and the travel for the remaining days of the month was carried forward to the October report. The total to October 31st was 161 cars and 553 visitors. These figures, when compared with the travel report of November 30, 1923 - the first travel report to be submitted after the close of the tourist season last year - show a considerable falling off of the late season travel which is accounted for in large measure by weather conditions as the snowstorms of September 20th and October 10th made travel exceedingly difficult on all park roads. A total of 295 cars and 1005 visitors entered the park between September 26th and November, 1923, and practically all of this travel was prior to November 1st. Road and weather conditions, however, were far more favorable to travel last fall than this.

#### Service to the Public

During the month of October all of the hotels and permanent camps were closed and there was no transportation service except between Gardiner and Mammoth Hot Springs. Very few tourists were in the park. C. A. Hamilton, merchant at Old Faithful and Yellowstone Lake, not only kept his stores and gasoline stations open at these points but also at Old Faithful. He provided accommodations for as many as thirty visitors, using his quarters that in the summertime house his temporary employees. He also kept his cook and served meals to visitors. So satisfactory was this service and as it fills a great need in this park I have arranged with Mr. Hamilton to open both the Old Faithful and Lake stores as soon as the upper park is opened to travel next spring and have authorized him to use his employees'



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quarters and mess halls for the accommodation of visitors. I have also authorized him to advertise that his service is available. His quarters are splendidly furnished and he is capable of giving, both before and after the tourist season, at rates less than those authorized at the permanent camps, service that is better than the camps give during the season except in the matter of entertainment.

The Transportation Company took enough busses from storage to move the Famous Players-Company to and from the Buffalo Ranch.

The Whittaker stores at Mammoth and Canyon were kept open throughout the month.

The Haynes store at Tower Falls, however, was closed at the end of the tourist season, September 20th.

#### Special Visitors

Other than the members of the Famous Players-Lasky Company, who were in the park filming "The Thundering Herd", there were no visitors here during the month that should be mentioned at this point in this part of the report. With the Famous Players-Lasky Company were the following leaders and directors: Tom White, casting director; Lucien Hubbard, scenario writer and director; Col. T. J. McCoy, actor and assistant manager; Tom Stout, chief camera man for Cecil B. DeMille, and the man who photographed "The Ten Commandments", and other Demille productions which are extremely popular in the country today.

## II. ADMINISTRATION OF THE PARK

#### Inspections

There were no general Service or Department officers in Yellowstone National Park during the month of October.

The Superintendent made several inspection trips to the Buffalo Ranch, Canyon, Yellowstone Lake and Old Faithful by automobile.

Engineer A. W. Burney was authorized to make a trip to Salt Lake City for the purpose of observing graveling operations which were being conducted on a large scale at several points in



Idaho and Northern Utah. While the car used belonged to the government the park engineer paid all expenses from his own pocket as he combined pleasure with business.

### Personnel

| <u>No.</u> | <u>Class</u>                   | <u>Kind of Work Performed</u>                                                                                                                                                                                                                                                                                                            |
|------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | Superintendent                 | General administration and supervision of all activities in the park.                                                                                                                                                                                                                                                                    |
| 2          | Asst. Superintendents          | 1 in charge of administration, purchasing, disbursing; 1 in charge of property, equipment, transportation, cost accounts, inventories, etc., also acting as Assistant to Supt. in capacity of Field Asst. to the Director.                                                                                                               |
| 2          | Asst. Engineers                | 1 in charge of engineering work; 1 assisting.                                                                                                                                                                                                                                                                                            |
| 7          | Clerks                         | 1 Cost Accounting Clerk; 1 Personnel and File Clerk; 1 Clerk on orders, proposals and vouchers; 1 Clerk on timekeeping and payroll work (services terminated effective Oct. 10th); 1 Clerk (WAE) intermittent service, assisting with revenues, timekeeping, etc.; two stenographer typists on stenographic work for the Superintendent. |
| 3          | Electricians                   | Operated power plant regular shift, including Sundays, read meters, did necessary line work.                                                                                                                                                                                                                                             |
| 2          | Foremen                        | 1 in charge of road work; 1 in charge of headquarters corral and freighting work about headquarters.                                                                                                                                                                                                                                     |
| 1-         | Telephone Switchboard Operator | Operated telephone switchboard daily including Sunday.                                                                                                                                                                                                                                                                                   |
| 1          | Master Mechanic                | In charge of shops and of repair to heavy road machinery.                                                                                                                                                                                                                                                                                |



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|    |                                     |                                                                                                                                                   |
|----|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 2  | Blacksmiths                         | General blacksmith work, including shoeing of horses in shop, repairing tools and equipment.                                                      |
| 1  | Master Plumber                      | 1 in charge of general plumbing and water and sewer systems.                                                                                      |
| 2  | Auto Mechanics                      | 1 on duty in power plant; 1 on repair work.                                                                                                       |
| 2  | Laborers                            | Teaming, freighting, assisting mechanics, and miscellaneous work at headquarters.                                                                 |
| 1  | Steward & Master of Transportation  | In charge of all transportation and of storehouses.                                                                                               |
| 1  | Chief Buffalo Keeper                | In charge of hay ranch operations at Slough Creek.                                                                                                |
| 1  | Buffalo Herder                      | Assisting Buffalo Keeper.                                                                                                                         |
| 1  | Park Naturalist                     | Scientific research work and developing museum.                                                                                                   |
| 1  | Chief Park Ranger                   | In charge of ranger force.                                                                                                                        |
| 1  | First Asst. Chief Ranger            | In charge of Northern District.                                                                                                                   |
| 2  | Assts. Chief Park Rangers           | 1 on duty at Lake District; 1 in charge of Western Supervisory Territory.                                                                         |
| 23 | Park Rangers (18 WAE)               | Patrolling, protecting game, policing stations, repairing trails and bridges, fire lookout work and miscellaneous duties; one resigned Oct. 27th. |
| 5  | Park Rangers (Temporary)<br>(4 WAE) | Miscellaneous duties under direction of station chiefs.                                                                                           |



Leaves of Absence

Annual

Herbert G. Chappellear, Clerk, Oct. 1-2, 2 days.  
August C. Meumann, Master Painter, Oct. 1-6, 5 days.  
Albert Collins, Electrician, Oct. 1-11, 10 days.  
Burton G. Lacombe, Chief Buffalo Keeper, Oct. 1-2 (noon), 1-1/2 days.  
Joseph Joffe, Clerk, October 1, 1 day.  
Earl S. Bowman, Park Ranger, October 3, 1 day.  
William Wiggins, Master Plumber, Oct. 1-2, 2 days. Oct. 6, 1 day.  
Anna E. Madsen, Clerk, Oct. 9, 1 day. Oct. 1 (noon), 1/2 day.  
Julia S. Stockett, Clerk, Oct. 1 (noon), 1/2 day. Oct. 11 (noon), 1/2 da.  
Roy C. Brown, Park Ranger, Oct. 3, 4-6, 3 days.  
Albert L. McLaughlin, Park Ranger, Oct. 6--11, 6 days.  
Arthur W. Burney, Asst. Engineer, Oct. 2-11, 24, 10 days.  
Samuel T. Woodring, Chief Ranger, Oct. 17-28, 10 days.  
Leroy Hill, Asst. Supt., October 25, 1 day.  
Eri A. Allan, Electrician, Oct. 25, 1 day.  
Julius L. Greer, Park Ranger, Oct. 23-28, 5 days.  
Birt Vink, Blacksmith, October 18, 1 day.  
Andrew R. Edwin, Clerk, Oct. 15 (noon)-16, 1-1/2 days.  
A. C. D. Henman, Laborer, Oct. 17-18, 2 days.  
Joseph Joffe, Clerk, October 25, 1 day.  
Charles Stinnett, Blacksmith, October 20-21, 2 days.  
Eri A. Allan, Electrician, Oct. 27, 1 day.

Sick

Birt Vink, Blacksmith, Oct. 23-27, inclusive, 5 days.

Without Pay

Daniel W. Tripp, Laborer, Oct. 1-31.  
Deate T. White, Foreman, October 1-31.

Appointments

Carl W. Dunrud, Park Ranger, at \$1500 per annum and quarters, WAE,  
entered on duty October 14, 1924.  
John W. Delmar, Park Ranger at \$1500 per annum and quarters, WAE,  
entered on duty October 10, 1924.



### Separations

Harlie Hodgins, Park Ranger, at \$1500 per annum and quarters, WAE, resigned, effective close of October 27th.

Oscar B. Eggen, Clerk, Temporary, at \$1440 per annum and quarters, services terminated effective close of October 10, 1924.

### Office Force Activities

1377 pieces of official mail were received during the month of October and 1200 were sent out.

The following circular was issued, and a copy is attached to this report:

| <u>No.</u> | <u>Date</u>  | <u>Regarding</u>                      |
|------------|--------------|---------------------------------------|
| 23         | October 28th | Fire hazard in connection with radio. |

### Finances

Costs of Operation, etc.: The cost of operating the park for the month of October, 1924, will be shown on the Monthly Cost Accounting Report which will go forward as soon as prepared.

#### Revenues

Sale of automobile permits ..... \$ 7705.09

Franchise Charges: Certified check #1004, dated Oct. 8, 1924, from Henry P. Brothers, to the Director, National Park Service, being 4% of gross revenues for season of 1924, amount ..... 309.36

Sale of Water: Certified check #760, dated October 13, 1924, drawn by H. W. Child on the National Bank of Montana, Helena, Montana, to the Director, National Park Service, amount ..... 172.08

Certified check \$560, dated October 16, 1924, drawn by H. W. Child, on the National Bank of Montana, Helena, to the Director, National Park Service, amount ..... 247.20



Sale of Electricity: Certified check #759,  
dated October 13, 1924, drawn by H. W. Child on the  
National Bank of Montana, Helena, Montana, to the  
Director, National Park Service, amount ..... \$1333.84

Certified check #559, dated October 16, 1924,  
drawn by H. W. Child on the National Bank of Montana,  
Helena, Montana, to the Director, National Park Service,  
amount ..... 334.45

Certified check #615, dated October 13, 1924,  
drawn by Vernon Goodwin on the National Bank of Montana,  
Helena, Montana, to the Director, National Park Service,  
amount ..... 211.65

Certified check #333, dated October 1, 1924,  
drawn by Anna K. Pryor on the National Park Bank, Liv-  
ingston, Montana, to the Director, National Park Service,  
amount ..... 14.43

Certified check #354, dated October 4, 1924, drawn by  
George Whittaker on the National Park Bank, Livingston,  
Montana, to the Director, National Park Service, amount ... 19.70

Certified check #317, dated October 25, 1924,  
drawn by J. E. Haynes, on the First National Bank of  
St. Paul, to the Director, National Park Service,  
amount ..... 28.67

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Total \$10,376.49

Plans, Maps and Surveys

The preliminary road survey along the shore of Lake Yellowstone from Bridge Bay to Arnica Creek was completed on October 16th. The total length of this line was 12.122 miles and it is believed that this distance can be reduced to 11.7 miles when the projection is completed. In conjunction with this survey a preliminary survey along Bluff Point on the loop road was completed. This survey was made to get a detailed cost of the contemplated widening and alignment improvements at that point.

A preliminary survey near the Firehole Cascades and one on the Undine grade were completed this month. Both of these



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surveys were in connection with the proposed road program.

The survey party was disbanded on October 25th and the notes taken on the field are being worked up in the office.

### Preparation of Reports

Special reports were prepared during the month on road-side clean-up work, the cost of which is being defrayed by an Eastern friend of the park. A comprehensive report on the present status of our museum and the need for extension of museum work was prepared and sent to Chief Naturalist A. F. Hall. Reports on game conditions for the year were compiled for the Director and for the California Academy/Sciences.

of

### Report on Commissary, Transportation

All attention in the Commissary and Transportation Department was directed towards the hauling of coal, oats and hay from Gardiner and delivery to points in the park and storing in Mammoth.

### New Policies

The policy of shipping buffalo to private parties inaugurated by the Service was put into effect in the park this month by the shipment of many buffalo to private parties in different sections of the country.

### Publicity

The only important piece of publicity issued during the month was a statement regarding 1924 travel to the park, accompanied by comprehensive tables showing travel by entrances, by states, makes of cars, etc. This travel statement was sent to most of the papers of Idaho, Montana and Wyoming and to all of the important papers in other states. It was also sent to all Park Superintendents and



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to the public utilities and individual operators of other parks, also to Railroad Passenger Traffic officials and tourist agencies.

### III. MAINTENANCE OF IMPROVEMENTS AND FACILITIES

#### Buildings

The Master Painter and one helper replaced glass in broken windows in buildings at headquarters and painted coal sheds at several quarters.

#### Grounds

The foreman in charge of grounds at headquarters supervised the hauling and distributing of gravel on the road near the shops and gave particular attention to those places near the Commissary, where trucks are loaded, and in front of the garage.

Besides the regular work of freighting about headquarters, care of stable, etc., work was begun on the cleaning out of the reservoir.

#### Roads, Trails and Bridges

Fifty bridge beams were scraped preparatory to being given a coating of red lead.

Roadside Clean-up: The general clean-up of the roadsides in the vicinity of Willow Park was continued during the month. As stated in the September report the money for this work is being furnished by a certain wealthy friend of the park.

A crew of seven men, two teams and a truck worked on this section and practically finished cleaning the roadsides between the 8 and 9½ mile posts of fallen trees, stumps, logs and standing dead trees for a distance each side of the roadway varying from 75 to 150 feet.

On October 11th another crew of 10 men and six teams was put to work on the Mammoth-Golden Gate section and by the end of the month had thoroughly cleaned the roadsides for 1½ mile between the 1 and 2½ mile posts. On this section the work consisted principally of removing the hundreds of old stumps. Most of these stumps could be pulled with a team. The others were blasted out. As the country is very open on this section it was necessary to go out in places four and five hundred feet from the roadway. All stumps, logs and other debris were gathered in piles and burned.



Electrical and Telephone Systems

A telephone crew of seven men worked on the line between Madison Junction and West Yellowstone. The government one wire grounded line was taken down and transferred with an additional wire to the Hotel Company poles, making a metallic circuit. Thirty-five poles of the Hotel Company's line were reset between Riverside Ranger Station and West Yellowstone.

The following poles were reset during the month:

|    |                  |
|----|------------------|
| 20 | Tower Falls line |
| 6  | Canyon-Lake      |
| 4  | Norris-Firehole  |

The Power Plant was operated in the usual manner. It was run constantly with the results shown in comparison for October, 1923, as follows:

|                                                                                                 | <u>1923</u> | <u>1924</u> |
|-------------------------------------------------------------------------------------------------|-------------|-------------|
| Total current generated in KW hours                                                             | 35,410      | 43,290      |
| Of this, sold to public utilities at 5¢ per KWH                                                 | 5,115       | 3,338       |
| Balance, consumed in government buildings, for power and lighting, and lost on lines in transit | 30,295      | 39,952      |
| Peak load during month in KWH                                                                   | 110         | 102         |

*Break lighting* 1,943  
38,809

The Telephone and Switchboard Office was open daily from 7:30 A.M. to 8:30 P.M. The total business handled was as follows:

|                           | <u>1923</u> | <u>1924</u> |
|---------------------------|-------------|-------------|
| On Government local lines | 4,847       | 6,061       |
| On Hotel Company lines    | 447         | 781         |
| Long Distance Connections | 257         | 277         |
| Total                     | 5,551       | 7,119       |



### Machinery and Equipment

The fire hose cart and ladders were painted and painting was begun towards the last of the month on rolling equipment.

Work in the garage consisted primarily in the overhauling of 2 F.W.D. trucks, 2 one-ton Ford trucks, and repair work on all freight trucks. The blacksmith overhauled 7 road graders, did miscellaneous repair work to equipment and shod horses. A good part of the time of the Master Mechanic was spent in personally operating the caterpillar engine engaged in work of roadside clean-up, and a steam engine used in cleaning out the old reservoir.

### Signs

A few signs were painted.

## IV. CONSTRUCTION OF IMPROVEMENTS

### Electrical and Telephone Systems

The new Gardiner ranger station was wired for telephone and electric lights, and some additional wiring was done in the Canteen Building.

Except for some changes now being made in the location of the line at Mammoth the new Mammoth-Norris line is now finished. One crew of 8 men worked during the month on the Mammoth end, and another crew of six men worked 12 days on the Norris end. The conduit box, 1500 feet long, which is to carry the wires around Obsidian Cliff is finished. Six twisted pairs will be placed in the box and the overhead wires around the Cliff removed.

From a landscape point of view the construction of this telephone line which permitted the removal of the two old lines from along the roadside, is not equalled in importance by any other construction work.

### Water and Sewer Systems

Good progress was made during the month on the sewer system which is to serve the new camp and lunch station at the East



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A few signs were painted.

## IV. CONSTRUCTION OF IMPROVEMENTS

### Electrical and Telephone Systems

The new Gardner ranger station was wired for telephone and electric lights, and some additional wiring was done in the Gantzen Building. Except for some changes now being made in the location of the line at Mammoth the new Mammoth-Hortle line is now finished. One crew of 8 men worked during the month on the Mammoth end, and another crew of six men worked 12 days on the Hortle end. The conduit box, 1500 feet long, which is to carry the wires around Ogdenian Cliff is finished. Six twisted pairs will be placed in the box and the overhead wires around the Cliff removed. From a landscape point of view the construction of this telephone line which permitted the removal of the two old lines from along the roadside, is not equalled in importance by any other construction work.

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Entrance. The concrete sedimentation tank 10 x 19 feet was finished; the entire trench, 2600 feet in length, was excavated; 1200 feet of 6-inch tile laid, and the trench backfilled and the cable suspension over the Middle Fork placed. This job will be finished by November 15th or soon after. The costs of this work are being paid by the Yellowstone Park Camps Company.



## V. PROTECTION DEPARTMENT

### Patrols

Chief Ranger Woodring has made extensive patrols in both the northern and western supervisory territories. These patrols were chiefly concerned with the numbers and movements of the elk and other game and with forage conditions in the regions traversed.

Assistants Chief Ranger Trischman, Douglas and Carter have made repeated trips throughout their respective districts during the month. Their work has chiefly consisted of supervising and directing game patrols, checking upon game movements and the activities of hunters in regions adjacent to the park and in connection with these patrols they have also devoted some time to equipping, outfitting and repairing the ranger stations and cabins of their respective districts, taking inventories of government property and a limited amount of brush burning and clean-up work has been done under their supervision.

Ranger patrols have been a matter of daily routine from all stations throughout the month, game movements being constantly observed and rangers keeping themselves informed as to the activities of hunters at all points where hunting is permitted along the park boundaries. Boundary patrols will be made daily throughout the hunting season and special patrols are being made in the Upper Yellowstone country during the course of the hunting season and details from the rangers' report from this district will be noted under the proper headings.

### Birds and Flowers

A catbird and several meadowlarks still lingered at the Buffalo Ranch on the 5th.

A robin and bluebird were seen on the 10th.

On the 13th five Wilson snipe (in general, a summer species) were found to be staying contentedly on the grassy margin of the small pond at the very north entrance of the park. Also enjoying the sunshine of the 13th, a mourning cloak butterfly was seen flitting about.



Throughout the month one of the most abundant birds was the pink-sided junco. They were to be found in flocks and singly and were widely distributed.

Waterfowl were particularly abundant. Canadian geese, Barrow goldeneye ducks, mallards, mergansers, teal were especially numerous. Toward the latter part of the month these were joined by scaup and buffle head ducks. The Yellowstone River between the Lake and Canyon was a favorite resort for the ducks; they were also numerous on the lake itself, as well as in the creeks and smaller lakes.

#### Wild Animals

Elk: Unsettled weather conditions early in the month, resulting in heavy snowfall throughout the park, on October 10th, brought the elk down to the lower ranges in very unusual numbers. Chief Ranger Woodring rode from the Buffalo Ranch to Hellroaring via Slough Creek and the Yellowstone River on October 12th and saw numerous bands of elk ranging in number from 200 to 400, and many smaller bands. He counted 740 between the Buffalo Ranch and the Lower Slough Creek Ranch and estimated that there were over 6000 elk on the east side of the Yellowstone River between the Buffalo Ranch and Hellroaring. A large band approximating 400 had moved down to the Gardiner Flats and about 200 were ranging around Mammoth and on the slopes of Sepulcher. It was estimated that probably half of the Gallatin herd had moved down to the Game Preserve and the elk situation throughout this section was very unusual, causing grave concern for their safety in view of their threatened drift to points beyond the park boundaries at the very beginning of the hunting season, but, fortunately, fair weather came and the snow melted and the elk drifted back to the higher levels. The losses occasioned by hunters have been very moderate thus far and the general condition of the herds is very good. The losses due to hunting outside of the park are as follows: Gardiner district, 1; Gallatin district, 30; West Yellowstone district, 5; Upper Yellowstone district, 7; and Hellroaring District, 4. Total 47.

Losses due to accidental and unavoidable causes are reported as follows: 1 cow and 1 bull on Reece Creek, and 1 bull on Blacktail Deer Creek. Total 3.



Antelope: The first reported appearance of antelope on the Gardiner Flats this fall occurred on October 8th when the big male, commonly known as "Old Bill", first made his appearance. Since then, most of the herd has moved down from the summer range and scattered bands, ranging from 20 to 60, are commonly seen on the lower slopes of Sepulcher and Mt. Everts. They are well conditioned.

The losses to date consist of: 1 buck, which was killed by coyotes. The estimated total of the herd at this time is 395.

Deer: The deer are well conditioned and plentiful. There has been a substantial increase in the Mammoth herd during the past year despite some losses due to accident and other unavoidable causes. A count of two dozen or more in one group may be had on almost any late afternoon. Patrols from Hellroaring, Crevice, Cottonwood and other points in the Northern District report an abundance of black-tail, or mule deer, and Chief Ranger Woodring reports having counted 21 on Reese Creek with signs of considerable more. There are also several small bands at the Upper Geyser Basin and at other points along the Firehole River.

The losses occasioned by hunters outside of the park are reported to date as follows: Gardiner district, 8; Crevice district, 3; West Yellowstone district, 1; Upper Yellowstone district 2; Total 14.

Losses from accidental and unavoidable causes are noted as follows: Gardiner district, 2 fawns, Mammoth district, 1 fawn and 1 buck; Total 4.

The estimated total for the entire park area is 1500 to 1800.

Moose: A recent estimate on moose based on personal observations and ranger reports during the past year fixes the total for the entire park region at 450. This is considered a conservative figure as moose are commonly seen throughout the park where forage suitable to their requirements can be found. They are splendidly suited to the weather and other conditions peculiar to the park region and winter kills are of rare occurrence. With adequate protection from hunters this animal will increase abundantly.



Mountain Sheep: The estimated sheep total at this time is 600. This estimate is based on reports and observations over a period of two years. The actual count last winter was barely more than a third of the estimated total but conditions were not favorable at any time during the season for a full count. However, there is known to be approximately 300 on Mt. Everts, Hell-roaring, Junction Butte and Specimen. There are important sheep districts in the neighborhood of Mt. Norris and Amphitheatre Mountain where abundant signs have been observed and limited counts were made during the past winter season. Nineteen of the Mt. Everts herd have been recently seen along the Canyon of the Gardiner River and of this number 5 were lambs.

Black Bear: Bears were unusually numerous throughout the park during the past season and their activities were not limited to the feeding grounds at the hotels and camps. They were commonly seen along the highways, particularly mother bears with cubs. The estimated total of black bears is 200.

The losses occasioned by hunters in regions adjoining the park are reported to date as follows: Upper Yellowstone district, 1; Soda Butte district, 3; Total 4.

Grizzly Bears: They are most commonly seen in the Northeast section of the park, particularly on Upper Slough Creek and Upper Soda Butte Creek. They are numerous in season at the feeding grounds near the Canyon Hotel. The estimated total for the entire park area is 60.

The season's losses of this animal, occasioned by hunters, are reported to date: 1 bear with two cubs. Total 3. Killed on Clarks Fork of the Yellowstone at a point about 6 miles beyond the east boundary of the park.

Small Animals (fur-bearing): These animals are apparently as numerous as usual. Beaver and otter are increasing in numbers.

Buffalo, Wild Herd: A recent estimate based on personal observations and ranger reports during the past two years fixes the herd total at about 85. Conditions were not favorable during the past winter for observations and accurate counts on this animal.

Buffalo, Tame Herd: The herd total at the close of the calving season - the calf crop this year numbered 120 - was 780.



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Since that time the herd has been reduced to 693, the variance of 87 being accounted for as follows: 2 adults and 3 calves died from accidental injuries and 33 males and 49 females have been shipped to outside parties. The shipments thus far this fall were as follows:

| <u>Consignee</u>                                                                 | <u>Number</u> | <u>Sex</u>       | <u>Kind</u>    | <u>Date Shipped</u> |
|----------------------------------------------------------------------------------|---------------|------------------|----------------|---------------------|
| S. M. Bradley<br>Morehead, Kentucky                                              | 4             | 1 Bull<br>3 Cows | Young<br>Ones  | Aug. 23rd           |
| Sprague Brothers<br>Fremont, Indiana                                             | 1             | Bull             | 4-year<br>old  | Aug. 23rd           |
| Sprague Brothers<br>Fremont, Indiana                                             | 1             | Cow              | 3-year<br>old  | Oct. 21st           |
| Carl E. Schmidt<br>Iossee County,<br>AuSable, Michigan                           | 2             | Cows             | Young<br>ones  | Oct. 21st           |
| T. W. Carswell, Secretary<br>Abilene Chamber of Commerce<br>Abilene, Texas.      | 2             | 1 Bull<br>1 Cow  | Year-<br>lings | Aug. 23rd           |
| Daniel Harkins, Curator<br>Franklin Park Zoological<br>Garden, Boston.           | 3             | 1 Bull<br>2 Cows | 3-year         | Oct. 5th            |
| Dr. R. J. Hathaway<br>State Hospital for the<br>Insane, Warm Springs,<br>Montana | 2             | 1 Bull<br>1 Cow  | Year-<br>ling  | Oct. 23rd           |
| Charles G. Offerle<br>Kiwanis Club of Erie<br>Erie, Pa.                          | 1             | Bull             | 2-year<br>old  | Oct. 7th            |
| State Fair Grounds<br>Little Rock, Arkansas.                                     | 3             | 1 Bull<br>2 Cows | Young<br>Ones  | Oct. 5th            |
| ✓ Weber's Buffalo Farm<br>Grenloch, New Jersey.                                  | 1             | Cow              | 3-year<br>old  | Oct. 7th            |



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| <u>Consignee</u>                                                      | <u>Number</u> | <u>Sex</u>        | <u>Kind</u>    | <u>Date Shipped</u> |
|-----------------------------------------------------------------------|---------------|-------------------|----------------|---------------------|
| Geo. G. Anderson, Supt.<br>Tulare County Park<br>Visalia, California. | 1             | Cow               | Young<br>One   | Oct. 21st           |
| *Robert L. Hammond<br>St. Anthony, Idaho.                             | 1             | Bull              | Young<br>One   | Oct. 6th            |
| Dr. G. B. Fridell<br>Brown County,<br>Robinson, Kansas.               | 2             | 1 Bull            | 2-year<br>old  | Oct. 23rd           |
| J. W. Adam Memorial<br>Hospital, Perrysburg,<br>New York.             | 2             | 1 Bull<br>1 Cow   | Young<br>Ones  | Oct. 7th            |
| Mr. Lee Jordan<br>Jefferson City, Missouri                            | 2             | 1 Bull            | 2-Year<br>Old  | Oct. 5th            |
| Otis Emerson Dunham<br>Lodge Pole Ranch<br>Beverly, Mass.             | 1             | Bull              | Young<br>One   | Oct. 7th            |
| St. Elmo W. Acosta<br>Commissioner of Parks<br>Jacksonville, Fla.     | 2             | 1 Bull<br>1 Cow   | Year-<br>lings | Oct. 7th            |
| Senator Jos. O. Clark<br>Indiana County,<br>Glen Campbell, Pa.        | 8             | 2 Bulls<br>6 Cows | Young<br>Ones  | Oct. 9th            |
| Dr. B. A. Adams<br>Bristol Hospital<br>Bristol, South Dakota          | 2             | 1 Bull<br>1 Cow   | 4-year<br>old  | Oct. 21st           |
| B. E. Williams<br>Red River County<br>Avery, Texas.                   | 2             | 1 Bull<br>1 Cow   | Year-<br>ling  | Oct. 23rd           |
| Dr. William Mason<br>Wm. Mason Memorial<br>Hospital, Murray, Ken.     | 2             | 1 Bull<br>1 Cow   | Year-<br>ling  | Oct. 23rd           |
| *John Bishop<br>St. Anthony, Idaho.                                   | 1             | Cow               | Young<br>One   | Oct. 6th            |



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| <u>Consignee</u>                                                         | <u>Number</u> | <u>Sex</u>                                             | <u>Kind</u>        | <u>Date Shipped</u> |
|--------------------------------------------------------------------------|---------------|--------------------------------------------------------|--------------------|---------------------|
| W. E. Scripps<br>Wildwood Farm<br>Orion, Michigan                        | 2             | 1 Bull<br>1 Cow                                        | Year-<br>ling      | Oct. 21st           |
| H. A. Baldwin, Secretary<br>State Park Board<br>Redwood Falls, Minnesota | 1             | Cow                                                    | Young<br>One       | Oct. 21st           |
| E. D. Carter<br>Perry, Iowa                                              | 2             | 1 Bull<br>1 Cow                                        | 3-year<br>old      | Oct. 23rd           |
| Forest Preserve District<br>of Cook County<br>Willow Springs, Illinois   | 10            | 2 Bulls<br>8 Cows                                      | Young<br>Ones      | Nov. 1st            |
| Famous Players-Lasky Corp.<br>Hollywood, California.                     | 16            | 2 Bulls<br>2 Cows<br>8 Steers<br>2 Calves<br>2 Heifers | Young              | Oct. 29th           |
| Florenz Ziegfeld, Jr.<br>Hastings, New York                              | 2             | 1 Bull<br>1 Cow                                        | 8 years<br>6 years | Nov. 1st            |
| Ray Lambert<br>Brackenridge Zoo.<br>San Antonio, Texas                   | 1             | Cow                                                    | 4 year<br>old      | Nov. 1st            |
| *Robert M. Kerr<br>St. Anthony, Idaho                                    | 1             | Cow                                                    | Young<br>One       | Oct. 24th           |
| *Thomas Bishop<br>St. Anthony, Idaho                                     | 1             | Cow                                                    | Young<br>One       | Oct. 24th           |

\* These buffalo were all called for and hauled by truck from the Buffalo Ranch to St. Anthony, Idaho, and to Warm Springs, Montana.



Predatory Animals: There is no apparent increase of coyotes over last year and the season to date has not been particularly suited to hunting and trapping. However, a total of 38 have been destroyed this season to date, 5 of this number being killed in September and 33 this month. Wolf and mountain lion signs have been previously reported and every effort will be made to run them down.

#### Buffalo and Other Hay Ranch Operations

The operations at the Buffalo Ranch during the month have consisted chiefly of work incident to capture, crating and shipping of 75 buffalo - 7 were shipped prior to October - and to the various activities incident to the filming of "The Thundering Herd", which required the services of about 60 people for a period of approximately two weeks. The facilities and personnel at the ranch were largely at the disposal of the moving picture operators throughout the period of their stay. All other operations during the month were of a routine character and merit no special mention.

There were no operations of consequence at either Slough Creek or Yanceys.

A fence was built at the Gardiner ranch during the month, inclosing the haystacks at that point. This work required the services of 3 men for 9 days.

Additions and improvements have been made to the elk catching pen at Mammoth. The chute has been made into an incline which will enable us to drive animals into the crates without removing the crates from the trucks. Also, a corral has been built in connection with the catching pen which consists of a circular inclosure some 250 ft. in circumference and is built of double strength, heavy woven wire, supported by sturdy posts, well grounded. The height of the fence is about 10 feet. This work required the services of 3 men for 13 days. Our facilities for capturing elk are now greatly improved and it is believed we will have no difficulty in capturing and crating any desired number of elk, provided, of course, their winter conditions are sufficiently severe to bring them down to the catching pen in search of forage.

Two rangers were employed for 4 days during the month with roofing and otherwise completing the Cache Creek Cabin and for



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an additional two days they did maintenance work on the Cache Creek trail.

All snowshoe cabins were rationed during the month and otherwise equipped for use during the winter season.

#### Natural Features

The hot spring terraces at Mammoth Hot Springs did not undergo any important changes during the month. In the first place, it should be noted that the heavy wet snow of the early part of October broke limbs from innumerable trees on the terraces and several fine large trees were torn up by the roots during the storm. At the bottom of the north side of Highland Terrace there was a particularly interesting series of small terraces which have been extinct for hundreds of years. Having developed in a protected place they were not broken down after hot water ceased to flow over them and the soft lime formation in them turned to rather hard limestone. Trees grew in the terraces and one very large tree grew on the top terrace and was most interesting to visitors passing by the spot. In building the new Terrace Trail we were careful not to disturb these terraces or the tree but brought the trail close enough for the people to see them. Unfortunately, the heavy snow and wind of early October over-turned this big tree and injured the interesting terrace.

Observations on the activity of the terraces made personally at the end of the month disclosed the following:

Angel Terrace had less water flowing over it than at any time since I have been Superintendent. The new terrace that broke out behind it and near the base of the old Angel Terrace was also emitting a diminished flow of water and it may go dry during the winter. To the north of this new terrace there seemed to be some renewed activity from an old spring that was active from time to time. Quite a bit of water is flowing from this spring and small terraces are building up from the spring over to the Terrace Trail.

White Elephant Spring is becoming more active. It is usual, however, for this spring to become more active in the winter.



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reach the height of its activity in the spring and diminish throughout the summer. At the present time it is active almost throughout its entire length.

The little jet of water that has been spouting vigorously all summer just east of the main Orange Spring is flowing very little water at the present time. It is believed, however, that this spring will become more active during the winter.

Jupiter Terrace has not yet entirely recovered its natural flow of water. Early in September a part of this terrace broke off and was carried down to the road below by a volume of hot water. This key terrace served to distribute the water over a considerable area and until it is built back again the water will flow in a more or less restricted channel and with considerable volume. The terraces on both sides of the channel are naturally dry and white since the flow of water over them stopped. However, the general activity of Jupiter and its adjacent terraces is about as great as usual.

The Canary Springs southwest of the summit of Jupiter Terrace, which were so interesting to the public all summer, are still producing a considerable volume of water.

The spring that has assumed the greatest activity during the month is Hymen Terrace. For a considerable period of time this terrace has been becoming more and more active until at the present time almost all of both the new and old sections of the terrace are covered with water and beautifully colored. Only the extreme southwest part of the terrace, which was active in 1923, is now dry.

In our reports for May and June we described the construction of the Terrace Trail- a fine, wide trail leading from Mammoth Hotel and Mammoth Camp over the terraces to all points of interest. The trail was carefully built and harmonizes splendidly with the adjacent landscape. It was built for two reasons. First, to afford convenient access to all points of interest, and Second, to prevent visitors from wandering all over the terraces and climbing upon and breaking down delicate formations. Great care was taken to block all old trails wherever this was possible. Observations at the end of October, made for the purpose of determining whether or not the trail had resulted in less destruction of formation, disclosed the fact that the trail had certainly accomplished



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more in this respect than was expected of it. Evidently the traveling public used the new trail almost exclusively. Nowhere is there evidence of breaking down of the formations through attempts to climb into places not accessible by the trail. Taking everything into consideration I believe that no greater step was ever taken in the direction of the perpetual preservation of these hot spring terraces than the construction of the Terrace Trail by the ranger force.

#### Arrests & Violations of Law

On October 21st, Henry Rockinger, of Gardiner, Montana, was arraigned before the United States Commissioner on a charge of having unlawfully killed a female deer within the Yellowstone National Park. The case was tried and concluded on October 22nd, and the defendant found guilty as charged in the complaint, whereupon he was fined \$100.00, together with the costs of the prosecution, the fine being afterwards remitted when the Court had ascertained that the defendant was destitute of money or property, that he was physically disabled and was in fact being supported by his friends. He was released upon payment of the costs of the proceedings and by order of the Superintendent barred from entering Yellowstone Park until such time as the Superintendent may otherwise direct.

#### VII. MISCELLANEOUS

##### Medical Service

Dr. J. M. Wolfe, the park physician, was on leave of absence most of the month. I understand that he is spending his time seeking a new location. I have told him that his existing contract will not be renewed for 1925 and that he must be prepared to leave Yellowstone in the early spring.

I have devoted some attention to the making of plans for the operation of our hospital again during the 1925 season, and on October 31st, submitted to the Yellowstone Park Hotel Company, Camps and Transportation Companies, as well as to Dr. G. A. Windsor, who operated the hospital during the 1924 season, a proposition regarding the conduct of the hospital next year. The hospital was operated at a loss this year and it is necessary that the



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public utilities guarantee the operating expenses of the hospital before it can be opened again.

#### Post Office

New equipment to furnish a summer post office was received during October but has not yet been installed. Post Office Inspector C. T. Hansen, of Sheridan, Wyoming, visited the park for the purpose of inspecting this new equipment, and making his regular annual inspection of the post office, October 2nd to 4th.

Postmaster Lindsley was away on annual leave of absence October 15th to 25th, inclusive.

#### Religious Services

Religious services were held at Mammoth Hot Springs on the evening of October 12th and the morning of October 26th, by the Rev. Wm. Friend Day, Episcopal minister from Emigrant, Montana; and Thursday evenings of October 2nd, 9th and 23rd, by the Rev. Geo. C. Keohler, of Livingston, Montana. The Chapel was not used on account of the expense of heating in cold weather, but services were held in the smaller rooms in the Canteen Building.

#### School

Due to families moving away from Mammoth for the winter months the number of pupils in school have been reduced from 14 to 10. There are now attending school regularly 6 boys and 4 girls.

#### Other Matters of Interest

I am under instructions from the Director to proceed to Yosemite National Park, California, at an early date and must be there for a conference on November 15th or 16th.



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It is proposed therefore to leave the park about November 13th.

Assistant Superintendent Leroy Hill will be Acting Superintendent in my absence.

Cordially yours,

Horace M. Albright,  
Superintendent.

The Director,  
National Park Service,  
Department of the Interior,  
Washington, D. C.

JSE



DEPARTMENT OF THE INTERIOR.  
NATIONAL PARK SERVICE—YELLOWSTONE NATIONAL PARK.

CHIEF RANGER'S ~~MONTHLY~~ TRAVEL REPORT, ~~MONTH OF~~ September 26<sup>th</sup> to October 31<sup>st</sup>, 1924. Incl.

|                                                                    | NORTH. |         | WEST. |         | EAST. |         | SOUTH. |         | ALL TRAIL ENTRANCES. |         | SUMMARY. |         |
|--------------------------------------------------------------------|--------|---------|-------|---------|-------|---------|--------|---------|----------------------|---------|----------|---------|
|                                                                    | Cars.  | People. | Cars. | People. | Cars. | People. | Cars.  | People. | Horses.              | People. | Cars.    | People. |
| Automobile permits issued                                          | 23     | 65      | 13    | 30      | 14    | 39      | 0      | 0       | —                    | —       | 50       | 134     |
| Automobile permits issued ( <del>with</del> <i>without</i> charge) | 74     | 253     | 23    | 48      | 2     | 8       | 5      | 7       | —                    | —       | 104      | 316     |
| Cars entering second time                                          | 0      | 0       | 0     | 0       | 2     | 4       | 3      | 8       | —                    | —       | 5        | 12      |
| Motor-cycle permits issued <i>without charge</i>                   | 2      | 2       | 0     | 0       | 0     | 0       | 0      | 0       | —                    | —       | 2        | 2       |
| Total                                                              | 99     | 320     | 36    | 78      | 18    | 51      | 8      | 15      | —                    | —       | 161      | 464     |
| Passengers in horse-drawn vehicles                                 |        |         |       |         |       |         |        |         |                      |         |          |         |
| Passengers on horseback                                            |        |         |       |         |       |         |        |         |                      |         |          |         |
| Passengers on bicycles                                             |        | 12      |       | 7       |       | 15      |        | 8       | —                    | —       |          | 42      |
| Passengers on foot                                                 |        |         |       |         |       |         |        |         |                      |         |          |         |
| Total incoming passengers with private transportation              |        |         |       |         |       |         |        |         |                      |         |          |         |
| WITH HIRED TRANSPORTATION.                                         |        |         |       |         |       |         |        |         |                      |         |          |         |
| Yellowstone Park Transportation Co                                 | —      | ⊗ 47    | —     | —       | —     | —       | —      | —       | —                    | —       |          | 47      |
| Total incoming passengers with hired transportation                |        |         |       |         |       |         |        |         |                      |         |          |         |
| TOTAL INCOMING PASSENGERS                                          | 99     | 379     | 36    | 85      | 18    | 66      | 8      | 23      |                      |         | 161      | 553     |

Total automobiles in public camping grounds

Total passengers Cooke City stage

SEASON TOTAL END OF LAST MONTH

Total automobile campers in public camping grounds

Total visitors Cave Falls—Bechler River Region

SEASON TOTAL TO DATE

Total campers, all classes

161 553

161 553

Sam T Woodhouse



Department of the Interior  
National Park Service  
Yellowstone National Park  
Yellowstone Park, Wyoming.

October 28, 1923.

CIRCULAR NO. 23.

With an increasing interest being displayed by local residents in radio, certain supervisory measures must be adopted on account of fire hazards and also to insure erection of aerials so they will be least unsightly.

Those who have already installed radio sets and erected aerials will be required to so advise the Superintendent's Office, in writing. Assistant Superintendent Bilkert will inspect aerials, see that lightning arresters are properly installed, and select the placing of aerial wires, if same do not conform to requirements.

Anyone contemplating erection of aerials and installing radio outfits in the future will first request approval from the Superintendent's Office, in writing, after which the instructions of Assistant Superintendent Bilkert must be followed.

As most of us realize the ever present danger from fire, we should do our utmost to prevent fires; as most of us want this to be a clean place in which to live, we should prevent rubbish from accumulating, keep woodshed doors closed - hinges were put on for this purpose.

By pulling together Mammoth should be the clean place we all want it to be.

HORACE M. ALBRIGHT  
Superintendent